Human KCR1 Regulation of Herg Potassium Channel 

TELQKKKEERLPPAKGPLSELRRVLQFLLMYSMSLKNLSMLFLLTWPYMLLLLAFFVFVVVVNGGIVVGDR SSHEACLHFPQLFYFFSFTAFFSFPHLLSPTKVKTFLSLVWKRRVQFSVITLVSVFLVWKFTYVHKYLLA DNRHYTFYVWKRVFQRHEIVKYLLVPAYMFAGWAVADSLKSKSIFWNLMFFVCLVASTVPQKLLEFRYFI MAQLEGYYFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGRFSLSQWDPMITTLPGLYL PTLYFFNFLYYTEAGSVFFTLFAYLMCLYGNHRTSALLGFCGFMFRQTNIIWAAFCAGHIIAQKCSEAWK VSVGVVKPASWILGWSEHVVCSIGMLRFVHLLFSVGNFYLLYLLFRKIQPRNKASSSIQRILSTLTLAVF ----LT----NV----LT----TMS4 ----I------C----I--GFL-CA-TMS9 ----HGIL-L-V----TMS6 --A-L-----B----SI-----P----K---F TMS10 --D----I---FA-F-----H--I-----TMS8 TMS5 TMS1

Title:

rKCR1 hKCR1 Applicant(s): Serial No.:

Block

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LPYIIYRLNMPLPPISRLVCELGCYAVVNFLTFYIFLNKTFQWSDSHDIQRFMW

TMS12

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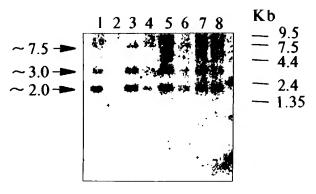


FIG. 1B

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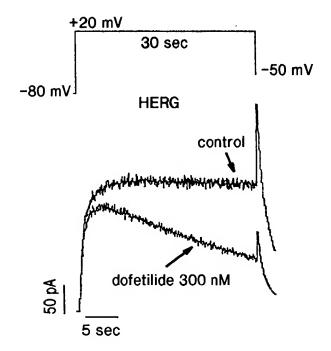


FIG. 2A

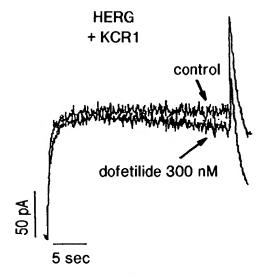


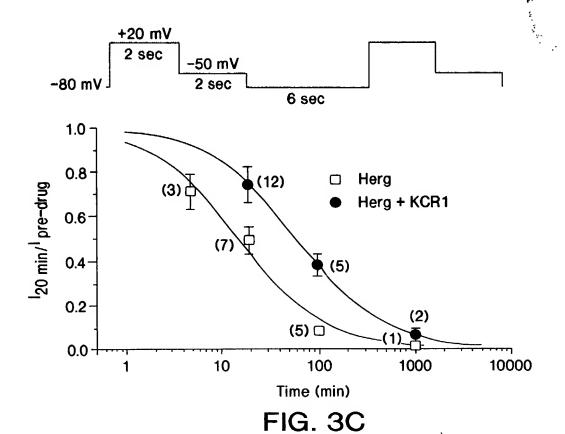
FIG. 2B

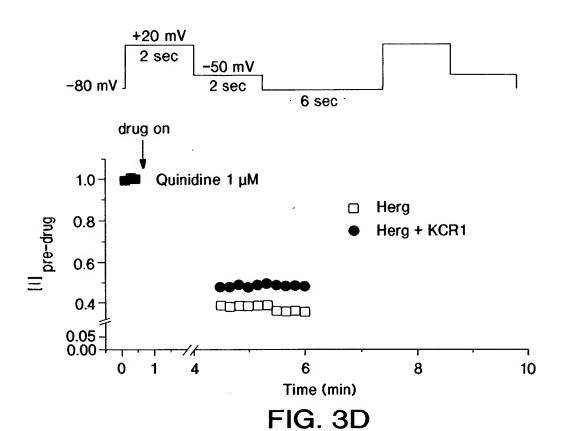
Human KCR1 Regulation of Herg Potassium Channel Title: Applicant(s): Balser, et al. Serial No.: 10/000,151 +20 mV 2 sec -50 mV -80 mV 2 sec 6 sec drug on 1.0 0.9 8.0 0.7 -KCR 1 0.6 control 0.5 dofetilide 20 nM 0.4 sotalol 300 µM 0.0 0 5 10 20 15 FIG. 3A Time (min) +20 mV 2 sec 50 mV -80 mV 2 sec 6 sec drug on 1.0 0.9 [I] pre-drug 8.0 +KCR1 0.7 control 0.6 dofetilide 20 nM 0.5 sotalol 300 µM 0.0 15 25 0 5 10 20 FIG. 3B Time (min)

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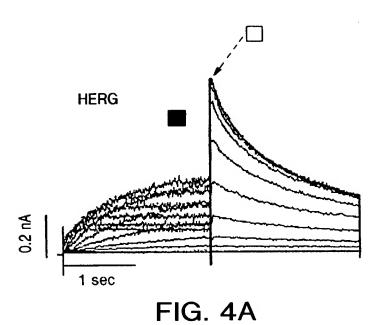
Applicant(s): Balser, et al. Serial No.: 10/000,151





Human KCR1,Regulation of Herg Potassium Channel Block Title:

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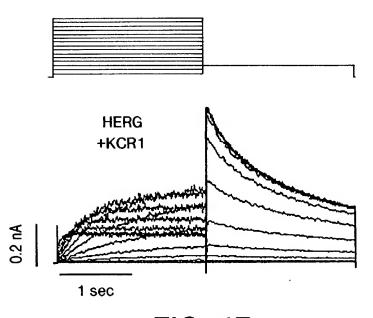
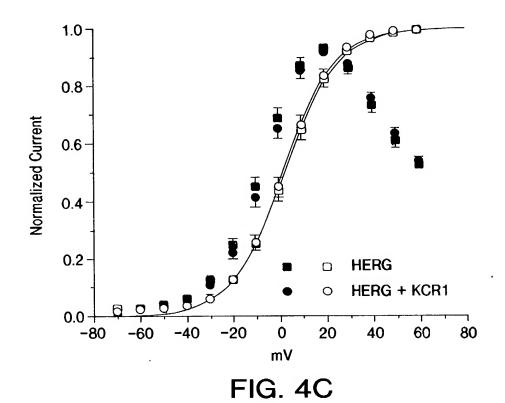


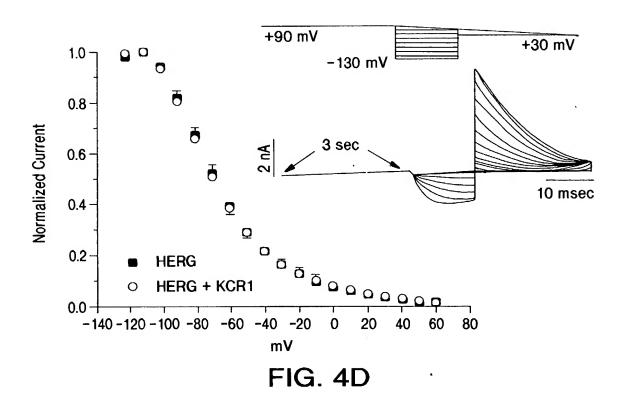
FIG. 4B

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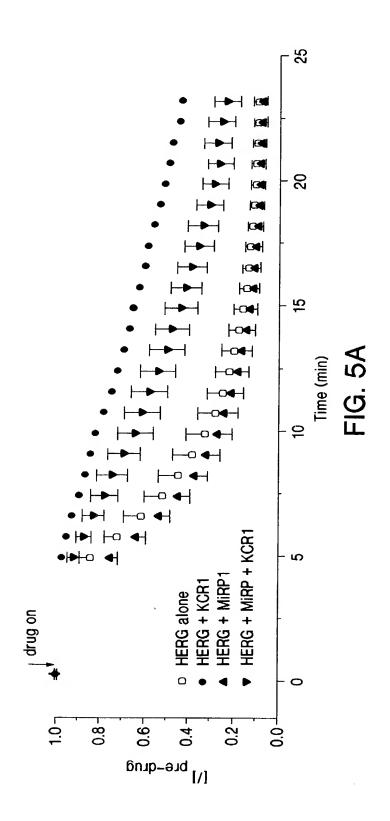
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Title:



Human KCR1 Regulation of Herg Potassium Channel Title:

Balser, et al. 10/000,151 Applicant(s): Serial No.:

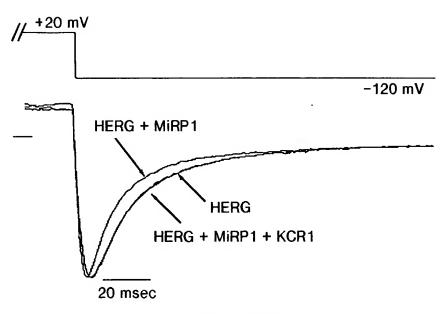


FIG. 5B

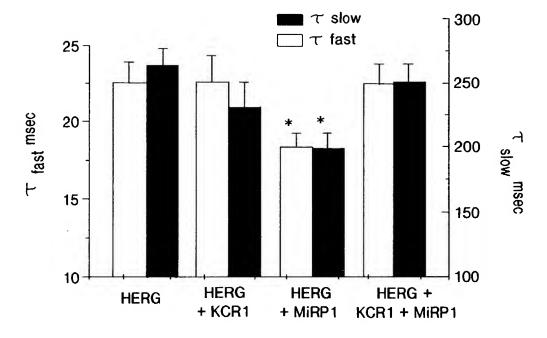


FIG. 5C